## **Amendments to the Claims**

Claims 1-14 (cancelled)

Claim 15 (currently amended): An anion-exchanger (1) comprising a plurality of anion-exchange ligands each of which is attached via a spacer to a hydrophilic base matrix, characterized in that wherein

(a) the ligands plus their spacers comply with the formula:

$$--SP---[Ar-R_1-N^+(R_2R_3R_4)]$$

where the symbols have the same meaning as in any of claims 1-10, and wherein

- (i)  $[Ar-R_1-N^+(R_2R_3R_4)]$  represents a ligand in which
  - a) Ar is an aromatic ring,
  - b)  $R_1$  is  $[(L)_n R_1]_m$  wherein
    - <u>n and m are integers selected amongst zero or 1;</u>
    - L is an amino nitrogen, an ether oxygen or a thioether
       sulphur;
    - R<sub>1</sub> is a bivalent linker group selected among
      - 1) linear, branched or cyclic hydrocarbon groups;
      - <u>2</u>) <u>-C(=NH)-;</u>
  - c) R<sub>2-4</sub> are selected among hydrogen and lower alkyls;
- (ii) SP is a spacer providing a carbon, a nitrogen, a sulphur or an oxygen directly attached to Ar-R<sub>1</sub>-N<sup>+</sup>(R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>);

- (iii) --- represents that the spacer is replacing a hydrogen in (Ar-R<sub>1</sub>-N<sup>+</sup>(R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>);
- (iv) -- represents binding to the matrix; and
- the anion-exchanger (1) has a maximal breakthrough capacity in the pH-interval 2-13 for at least one reference proteins selected amongst from the group consisting of ovalbumin, conalbumin, bovine serum albumin, β-lactglobulin, α-lactalbumin, lyzozyme, lgG, and soybean trypsin inhibitor (STI) which is ≥at least 200%, such as ≥ 300% or ≥ 500% or ≥ 1000% of the maximal breakthrough capacity in the pH-interval 2-12 obtained for a Q-exchanger (-CH<sub>2</sub>CH(OH)CH<sub>2</sub>N<sup>+</sup>(CH<sub>3</sub>)<sub>3</sub>) (anion-exchanger 2), the support matrix, degree of substitution, counter-ion and running conditions being the same for anion exchanger (1) and anion exchanger (2).

Claim 16 (currently amended): The anion-exchanger of claim 15, eharacterized in that wherein the relative break-through capacity is measured under anion-exchanger condition.

Claim 17 (currently amended): A method for testing (screening) the appropriateness of one or more anion-exchangers for removing a substance from a liquid, said method comprising the steps:

(a) providing a library which comprises includes

- one or more anion-exchangers to be tested (exchangers 1, 2, 3, 4 ...... n; wherein n = an integer > 0) each of which anion-exchangers differs with respect to kind of ligand (ligands 1, 2, 3, 4, .....n), and
- (ii) a reference anion-exchanger having a reference ligand, the support matrix etc being essentially the same in the exchangers 1, 2, 3, 4 .... n and in the reference anion-exchanger;
- (b) determining the maximal breakthrough capacity in the pH-interval 2-12 of exchanger 1 for the substance at a predetermined condition;
- (c) determining the maximal breakthrough capacity in the pH-interval 2-12 of the reference anion-exchanger for the substance at the same condition as in step (b);
- (d) <u>concluding with the aid of the relation betweendetermining, by comparing,</u> the maximal breakthrough capacities obtained in steps (b) and (c), if anion-exchanger 1 is appropriate to use for removing the substance; and
- (e) repeating, if necessary, steps (b)-(ed) for at least one of the exchangers 2, 3, 4 ...

  n.

Claim 18 (currently amended): The method of claim 17, eharacterized in that wherein the steps (b) and (c) are carried out under anion-exchanger conditions.

Claim 19 (currently amended): A method for removing salt from a negatively charged substance, preferably amphoteric, when present in a solution (liquid (I)), which method comprises comprising the steps of:

- (i) contacting liquid (I) liquid with an anion-exchanger (1) that comprises a base matrix carrying a plurality of ligands in which there is a positively charged nitrogen under conditions permitting binding between the anion-exchangerranion-exchanger and the substance,
- (ii) desorbing said substance from said anion-exchanger by the use of a liquid (liquid (II)), at a desired pH

## characterized in:wherein

- (A) selectingsaid anion-exchanger (1) isamong anion-exchangers that are
  - (a) capable of binding the substance of interest in an aqueous reference liquid at an ionic strength corresponding to 0.25 M NaCl; and
  - (b) permittingpermits a maximal breakthrough capacity in the pH interval 2-12 for the substance ≥ 200 %, such as ≥ 300% or ≥ 500% or ≥ 1000 %, of the breakthrough capacity of the substance for Q-Sepharose Fast Flow (anion-exchanger 2, Amersham Pharmacia Biotech, Uppsala, Sweden),

said anion-exchangers having essentially the same ligand density and the breakthrough capacities being determined under the same conditions; and

(B) adjusting-the pH of liquid (II) in step (ii) is adjusted by the use of an acid-base pair to a value that means a lower net positive charge on-the anion-exchanger and/or a lower net negative or positive charge on the substance thereby enabling elution at a lowered ionic strength compared to liquid (I).

Claim 20 (currently amended): The method of claim 19, characterized in that wherein at least one member of the acid-base pair buffer has a vapour pressure that is higher than the substance.

Claim 21 (currently amended): The method of any of claims 19-20, characterized in that claim 19, wherein the substance in the liquid of low salt content obtained in step (ii) is ionized in a mass spectrometer.